

What is hogger in steam turbine?

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6 Answers



Shahid Suhaeyeb Abdullah, aware!!But dont care!!

Answered Nov 2, 2016



During start up of turbine, vacuum has to be build up to obtain efficiency and desired flow.

This vacuum is build up using a STEAM JET AIR EJECTOR which uses condensate of turbine(from condenser).

However, since vacuum has to be build before receiving condensate from turbine, we use HOGGER also known as START UP EJECTOR.

It uses a convergent divergent flow path to create a high velocity flow of steam(auxiliary steam 11–13 ata) which in turn creates the vacuum in the system(bernoulli's principle)

once turbine gets rolling and main ejectors starts to receive condensate, then hogger is taken offline and now vacuum is sustained by the main ejector.

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Trilokprakash Nanda, B.E. Mechanical Engineering, AISSMS College of Engineering (2004)
Answered Dec 13, 2017



Hi Dipak,

For efficiency in steam turbine, the lower the temperature and pressure at the steam turbine's exhaust the more energy can be extracted from the steam. The hogger is the larger of the two ejectors mounted on steam turbine condensor.

In startup phase, hogger prevents steam from condensing before the steam flow and cooling effect of the condenser can establish vacuum

In steady state the cooling effect of the condenser cooling water of the steam causes the condenser to operate under a nearly self sustained vacuum.

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Paramatmuni Bharadwaja, studied Mechanical Engineering at Jawaharlal Nehru Technological University, Hyderabad (2017)
Answered Jan 5



A hogger is a term which would be a good description for a large air ejector that can be used to establish vacuum on a condenser when little or no steam is being condensed, such as during start-up of a steam turbine.

Once steam actually starts condensing the rapid decrease in volume that results from the steam condensing back into water actually is the "source" of the majority of the vacuum in the condenser. So, a large method of establishing and maintaining vacuum is no longer required.

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Imran Khan, Assistant Engineer at 30MW CFBC Boiler

Answered Jun 24, 2016



Hogger is a High capacity Thermocompressor pump to pull fluid out of the Steam Turbine's exhaust circuit initially and maintain pressure according to Turbine's design (usually less than 1atm in Condensing Turbine).

Fluid pulled out of Condensing System may be vented out to atmosphere for continuous operation of hogger.

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Pawan Yadav, B.TECH. Mechanical Engineering (2015)

Answered Apr 23, 2017



Hogger is also called Ejector. An ejector is placed after condensate pump and purpose of using this is to create vacuum for initial starting of the Steam Turbine Power Plant. Once the plant maintains its required flow of steam and feed water. This ejector is removed.

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Tejaswi Monangi, Chemical Engineer

Answered Jan 8



Hogger is a type of ejector mostly operating with medium pressure steam ranging between 5–15

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in a

condensing type steam turbine system. It draws out the non-condensables from the surface condenser chest and vents them off to atmosphere there by creating/ensuring vacuum inside the surface condenser.